& Final

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500220

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work : Providing and installation of RO water plant in WN-						
	Est cost : 15.00L						
	Job code : 010-20-000098. IN : 42431						
	w/o Reference : BBMP/EE/BTP/WO/108/20-21 Dt: 11/09/2020.						
	Reference : Mahmmad Farooq No 205, 9th C/S Maruthi Nagara Bhadrappa L/T Bangalore - 94.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO 01: EWE for foundations of buildings, W/S, Sanitary lines and electrical conduits etc., Quantities are as per pre measurements recorded vide pg no 500272 of this MB Book. For 25.38 cum @ Rs 175.07					= 4443.00	
	Item NO 02: Providing & laying in PCC of mix 1:4:8 with OPC cement at 180 kgs etc., Quantities are as per pre measurements recorded vide pg no 500273 of this MB book. For 4.15 cum @ Rs 4508.38					= 18710.00	
	Item NO 03: Providing and constructing granite / trap / basalt SSM in foundations with CM 1:6 etc., (20 cm high)						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500221

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pre measurements are recorded vide pg no 500273 of this MB book is 3.47 @ Rs 3878.49					= 13458.00	
	Item No 04: Providing & constructing granite/trap/basalt SSM in SSM in CM 1:6 not less than 15 cms high						
	Pre measurements are recorded vide pg no 500274 of this MB is 1.95 cum @ Rs 4636.21					= 9041.00	
	Item No 05: Filling available excavated earth in sides of foundations up to plinth in layers not exceeding 20 cms in depth						
	Pre measurements are recorded vide pg no 500274 of this MB is						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	25.38 cum @ Rs 117-64					=	2986.00
	Item NO 06: Providing & constructing load bearing wall with Solid concrete blocks of size 400 x 150 x 200 mm etc.,						
	wall portion Sqm	2	3.70		3.00	22.20	
		2	3.10		3.00	18.60	
	Parapet wall	2	3.70		0.20	1.48	
		2	3.10		0.20	1.24	
	Steps	1	3.35	0.80		2.68	
						46.20	Sqm
	Deductions for Rolling Shutter Lintels	1	2.25	2.10		4.73	
		1	3.70		0.15	1.11	
		2	3.10		0.15	0.93	

Assistant Engineer
Virtual

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500222

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		4	0.15		3.00	1.80	
						8.57 Sqm	
					37.64 Sqm ≈	35.70 Sqm	
	@ Rs 840.17					= 29994.00	
	Item NO 07: Providing & laying cc using 20mm & down size granite CA & FA of RMC M20 for RCC works laid in 15 cms thick etc.,						
						cum	
	column footing	4	1.3	1.3	0.60	4.06	
		4	0.45	0.15	5.00	1.35	
	Plinth beam	2	3.70	0.20	0.30	0.44	
						5.85	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	3.10	0.20	0.30	0.37	5.85
	Lintels	2	3.70	0.15	0.15	0.17	
		2	3.10	0.15	0.15	0.14	
	Roof beam	2	3.70	0.15	0.30	0.33	
		2	3.10	0.15	0.30	0.28	
	Roof slab	1	4.60	3.70	0.15	2.55	
						9.09 ≈ 9.58 cum	
	For 9.58 cum @ Rs 5445.81					= 52171.00	
	Item No 08: Providing TMT steel reinforcement for RCC work including straightening, cutting, bending etc.						
	Premeasurements are recorded vide pg no 500/271						1+8281.00
	of this MB is 0.86 T @ Rs 56141.23						= 48405.00

Assistant Engineer Vidyarsr

Engineer Division 97

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500223

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Item NO 09: Procuring & removing centering, shuttering, struting propping etc., Quantities are recorded as per premeasurement recorded vide pg no Of this MB is		68.39	Sqm @Rs	271.41	=	18562.00
	Item NO 10: Providing 12mm thick cement plaster in single coat with CM 1:3 to ceiling etc.						
	Roof Sqm	1	3.35	3.10		10.39	
	Chajja						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO 11: Providing 20 mm thick cement plaster in single coat with CM 1:6 to stone masonary etc. & concrete surfaces etc.,						
	Inside wall Sqm	2	3.35	3.30		22.11	
		2	3.10	3.30		20.46	
						42.57	
	Deductions For RS	0.5X1	2.25	2.10		-2.36	
						40.21	37.23
	For 37.23 Sqm @ Rs	192.67					7173.00

Assistant Engineer

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500224

Serial No. ..... /.....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Item No 12: Providing lime rendering for plastering to wall & ceiling including cost of materials labours etc.						
	Qty vide item NO 10 & 11 is 59.02 limited to 56.04 @ Rs 23.16 is = 1298.00						
	Item No 13: Providing 18 mm thick cement plaster in single coat with CM 1:6 to BM including all etc.						
	Sqm						
	outside	2	3.70		3.75	27.75	
		2	3.40		3.75	25.50	
		1	1.10		1.70	1.87	
						55.12	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	0.90		1.70	0.85	54.12
	Deductions for door	0.5×1	2.25		2.10	55.97	
						-2.36	
	For 53.46 Sqm @ Rs 183.41					53.61 = 53.46 Sqm	
						= 9805.00	

Item No 14: Providing & applying two coats oil bound washable distemper etc.

Qty vide item No 10+11 is 93.27 (limited) @ Rs 65.77 = 6134.00

Item No 15: Providing & finishing external walls in two coats with waterproof cement paint of approved brand etc,

Qty vide item No 13 is 53.46 @ Rs 77.81 = 4160.00

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 500225

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Cash Book Page No.	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Item No 16: Providing & applying enamel metal paint Two coat over new steel or other metal surface etc., outside Sqm	2	2.25		2.10	9.45	@ Rs 75.96 = 718.00
	Item No 17: Providing & fixing special make glazed vitrified Tiles of approved make quality & colour of size 600x600x100 mm thick Sqm	1	3.35	3.10		10.39	
		2	3.35		0.10	0.67	
		2	3.10		0.10	0.62	
		1	2.65		0.30	0.80	
						12.47 Sqm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refer to Measur
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	
	Quantity limited to 12.41 Sqm @ RS 1102.32					=	13680.00
	Item NO 18: Providing & laying/ fixing cement base, precast, pre polished cc, designer tiles 25 mm thick etc.,						
	Sqm	2	3.35	0.80		5.36	= 4,80
	@ RS 1005.00					=	4824.00
	Item NO 19: Not executed.						
	Item NO 20: Providing & fixing pull & push type rolling shutters of approved make out of 18 gauge etc.,						
	Sqm	1	2.25		2.10	4.73	
	@ RS 2651.12					=	12547.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500226

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 21: Providing fabricating assembling & fixing in position aluminium partitions using aluminium sector etc.						
	Aluminium partition	1	3.35		2.70	9.05 x 8.76 sqm	
				@ Rs 2995.71		=	26242.00
	Item No 22: EWE for pipeline trenches including depositing or bank up a lead of 50 mts etc.						
	Qty are as per premeasurement recorded vide pg no 500226 & the MB is 112.50 cum		@ Rs	161.25		=	18141.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 23: Providing & installation at site of works PVC pipes including cost of pipes and specials & including lowering into trenches, laying time to line etc., RO plant near ward office BEK 2nd Block						
	Quantities are as per premeasurements recorded					XB-00 vide pg 500278	
	No's 250 m @ Rs 134.66					= 33665.00	
	Item No 24: Sand filling in wells complete as per drawing and technical Specifications etc.,						
	Quantities are as per premeasurements recorded vide pg no 500278 of this MB is 21.24 cum @ Rs 2506.56					= 53239.00	
	Item No 25: Refilling the basement and pipeline trenches with selected available earth etc,						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500227

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Qty vide item NO 22-24 is 91.26 Sqm @ Rs 52.32 = 4775.00						
	Item NO 26: Providing & fixing in position brass gate valve with CI wheel of approved quality etc, complete						
	RO plant near ward office	1				1	
	Byrappa Garden 4th c/s	2				2	
	Byrappa Garden 2nd c/s	2				2	
						5	
	@ Rs 2341.09					= 11705.00	
	Item NO 27: 10000 LPD RO Plant Raw water pump.						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP. Bangalore-97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurem
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Quantity – 1, Centrifugal mono block MOC & Make: UKL Motor rating 0.5HP. Pressure sand filter: Qty - 1No, capacity 1000LPH, MOC & Make of housing UKL, MOC & Make of catridge: UKL capacity 100 LPH MOC & make of vessel UKL, Diameter: 40mm type of valve: Single multiport media: Support bed + Sand Micron catridge filter: Qty - 1 Set. filter rating 5 micron, Size 20" long Antiscalant Dosing pumps Quantity: 1 unit type: Electro magnetic capacity: 1.5LPH @ 4 Bar High pr pump: Qty: 1No: capacity 1700LPH Type of pump: Vertical multistage centrifugal pump MOC: SS304, Motor rating: 2HP, 3Phase max pr: 12 kg/cm2 make UEL						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500228

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Reverse Osmosis System QTY 1NO, 1000LPH, Module Type, membrane specification (polymade) made of membrane UKL. UV Steriliser : max treatment flow : 1m³/hr No of lamps 1NO wattage 39W Efficiency : 99.99% Material of const^n : SS304 Product water quality: Appearence : Crystal clear, Abide by this ISO standards SS Tank : 304 Grade with 16 gauge 2000 litres capacity. 304 Grade 10 Gauge SS pipe. Coin Booth Dispensing unit-						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2 Unit	3	4	5	6	7	8
	For 5 liters & 20 liters.						
	Raw water storage tank : Function – for storage of raw water.						
	Type/MOC: Two/Three layered PE tanks white/transparent in color made from virgin material of good grade quality.						
	Storage Drinking/Portable water: 5000 liters capacity.					1	811384.20
	Electrification.						
	Item NO 28: Supplying & wiring adopting loop system in existing PVC conduit/casing capping using 1100 V grade. etc.						
	Point- @210.14	1	1	6		6 =	1261.00
	Item NO 29: long point- above 6m up to 10m from lapping point-						

Assistant Engineer Division

M. A. R. 57 (Rule 116)
Measurement Book

No. B

500229

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
	2		3	4	5	6	7	8
		Point-	1×6				6	
	@ 311.35 (Rs)							1868.60
	Item NO 30: Supplying & flush mounting teak wooden box without front-							
	flush, etc.,	Each	1×30				30	
	@ Rs 58.32						=	1750.00
	Item NO 31: —11— (1.6.1) 12"×12"×3" (300×300×76mm)						18	
		Each	1×18				=	1791.00
	@ Rs 99.49							
	Item NO 32: —11—	Each	(1.6.3) 10"×7"×3" (254×178×76mm)					

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremer
	Unit	Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Each @ Rs 74.62	1X15				15 =	1119.00
	Item NO 33: Supplying 4mm thick plastic sheet etc. Sqm @0.21 (Rs					33333 =	7000.00
	Item NO 34: Extra for groove cutting in brick wall/CC floor to the suitable depth etc., mtr @ 18.01	1				30 =	540.00
	Item NO 35: Supplying heavy gauge PVC conduit pipe 19/20 mm dia 2mm thick etc., mtr @ Rs 48.03	1				25 =	1201.00
	Item NO 36: Supplying & fixing PBBC/Bakelite straight n slab batten holder & wiring with	60W/230 Volts etc.,					

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Measurement Book

No. B 500230

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work (unit- 2)	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Each	1x4				4	
	@Rs 75.48					=	302.00
	Item No 37: Supplying patli type fluorescent tube light fitting for 2' suitable for 14 W etc.,						
	Each	1x4				4	
	@Rs 506.90					=	2028.00
	Item No38: wiring for lighting power circuit using one 3 FRLS PVC						
	650V grade etc.,					15	
	M	1				=	
	@Rs 15.95						
	Item No 39: Supplying & fixing cast Aluminium round or oblong type bulk						

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BBMP, Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
1	2 Unit	Number 3	Length 4	Breadth 5	Depth 6	7	8
	head fitting etc: Each @ Rs 640.70	1x8				8 =	5126.00
	Item NO 40: Supplying, fixing, wiring, earth electrode for grounding etc., NO @ Rs 2338.95	1				1 =	2339.00
	Item NO 41: Supplying of 1.1 KV LT UG cabel having aluminium conductor etc .. mtr @Rs 120.42	1	30			30 =	3613
	Item NO 42: Labour charges for laying of 1.1 KV class UG cabel etc, mtr @ Rs 9.26	1	30			30 =	278.00

Assistant Engineer

M. A. R. 57 (Rule 116)
Measurement Book

No. B 500231

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	unit						
	Item NO 43: Digging of trench 0.6 m deep x 0.5 m wide refilling the trench to the required ground level. etc.						
	m	1	25.00			25.00	
	@ Rs 72.90					= 1823.00	
	Item NO 44: Supplying & fixing of class A (Medium duty) GI pipe of wall thickness						
	m	1	40 @ Rs 295.91			= 1184.00	
	Item NO 45: Supplying & fixing LT cast iron pot heads suitable for 1.1 kV						
	class UG cable filled with necessary bitumen etc.						
	NO	1	@ Rs 240.16			= 240.00	

Assistant Executive Engineer
Kuranyapura Sub Division
CMP. Bangalore

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Verified & Log A.E. (BTP, BTM)			Sub total		=	1254305.00
				RO plant BESCOM Deposit		=	13676.00
				Total		=	1267981.00
	Certificate: Certified that the above said building (RO plant) work is completed by the agency satisfactorily. Smitha. N L AE W10 21/04/21.						
	Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97						
	Contractor						

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Measurement Book

No. B

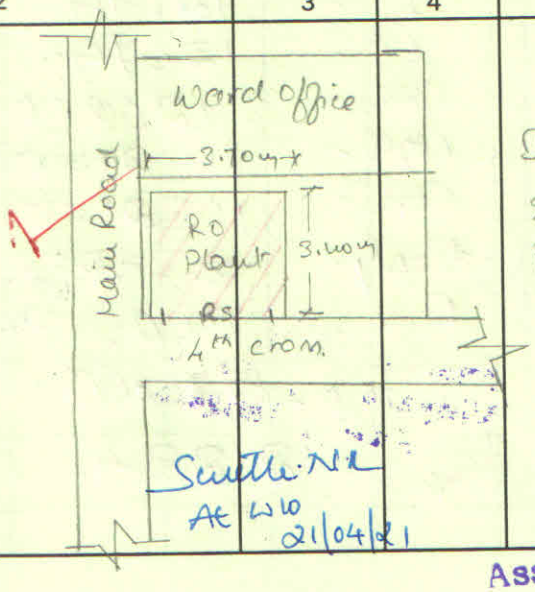
500232

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	 BFL Layout 2nd Block Park						

Assistant Executive Engineer
Vidyaranyapura Sub Division

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P- 27629 ರಡಿ ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 1267900=00 ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ. ಇದರಲ್ಲಿ ರೂ. 55560=00 ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ರೂ. 1212340=00 ಗಳನ್ನು FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ವಿಷಯ ನಿರ್ವಾಹಕರು ಲೆಕ್ಕಾಧಿಕಾರಿಯವರು ವ್ಯಾಟ್‌ರಾಯಲ್ಟಿ ವಿಭಾಗ ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ವಿಭಾಗ ರು	BA - 1267900=00 ES - 12679=00 LC - 12679=00 CESS - 1268=00 SGST - 11521=00 SGST - 11521=00 Royalty - 22992=00 Fine - 3000=00 TD - 55560=00 Charges 1,212340=00				